

In the Drawings:

Please replace FIG. 2 with the amended FIG. 2 indicated on the enclosed replacement sheet 2/13.

REMARKS

Claims 1, 4, 9, 11, 14, 19, 21 and 22 have been amended, and claims 3 and 13 have been canceled. Therefore, claims 1-2, 4-12 and 14-23 remain pending in the application. Reconsideration is respectfully requested in light of the following remarks.

Support for amendments:

Claims 1, 11, 21 and 22 have been amended to recite limitations previously recited in allowable claims 3 and 13, which have been canceled. Claims 4 and 14 have been amended to correct claim dependency in view of the canceled claims. Claims 9 and 19 have been amended to correct a typographical error in the recited equations, which appear in the specification in paragraph [0066] on p. 27.

In the specification, paragraph [0037] is amended to clarify that S(t) and A(t) are complex baseband representations of the signal of interest and an unrelated signal. The propriety of these changes would be apparent to those of ordinary skill in the art from reading the Specification in context. Paragraph [0042] is amended to include the asterisk (*) to indicate the complex conjugate operation in the expression A(t). Support for this is contained earlier in the sentence, which states that the formula was derived from "collecting terms" from the prior formula. Paragraph [0055] is amended to change "550a" to "550b" in line 12 thereof. This amendment conforms the text of paragraph [0055] to drawing FIG. 5.

In the drawings, FIG. 2 was amended to include more precise descriptions of the various signal spectra illustrated therein. The propriety of this change would be apparent to those of ordinary skill in the art from reading the Specification in context.

Provisional double-patenting rejection:

The Office Action provisionally rejected claims 1-23 under the judicially-created doctrine of obviousness-type double patenting as being unpatentable over claims 1-20 of copending Application No. 10/673,915. Applicant acknowledges the provisional rejection and will address it should it become nonprovisional, or should the claims otherwise be indicated as being in condition for allowance.

Section 102(b) Rejection:

The Office Action rejected claims 1, 2, 7, 11, 12 17 and 21-23 under 35 U.S.C. § 102(b) as being anticipated by Yu et al. (“A Novel Adaptive Mismatch Cancellation System for Quadrature IF Radio Receivers,” IEEE Transactions on Circuits and Systems-II: Analog and Digital Signal Processing, v. 46, no. 6, June 1999) (hereinafter, “Yu”). Applicant notes that each of independent claims 1, 11, 21 and 22 has been amended to recite limitations previously recited in claim 3, which was indicated by the Examiner as allowable. Applicant therefore submits that these claims as well as the pending dependent claims are allowable.

Allowable subject matter:

The Office Action indicated that claims 3-6, 8-10, 13-16 and 18-20 would be allowable if rewritten to include the limitations of the base claim and any intervening claims. As noted above, Applicant has amended the independent claims to recite the limitations of claim 3.

CONCLUSION

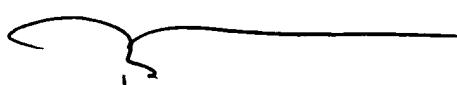
Applicant submits the application is in condition for allowance, and notice to that effect is respectfully requested.

If any extension of time (under 37 C.F.R. § 1.136) is necessary to prevent the above referenced application from becoming abandoned, Applicant hereby petitions for such extension. If any fees are due, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert, & Goetzel, P.C. Deposit Account No. 501505/5797-00200/BNK.

Also enclosed herewith are the following items:

- Return Receipt Postcard
- Petition for Extension of Time
- Request for Approval of Drawing Changes
- Notice of Change of Address
- Marked-up Copy of Amended Claims
- Marked-up Copy of Amended Paragraphs
- Fee Authorization Form authorizing a deposit account debit in the amount of \$ for fees ().
- Other:

Respectfully submitted,



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